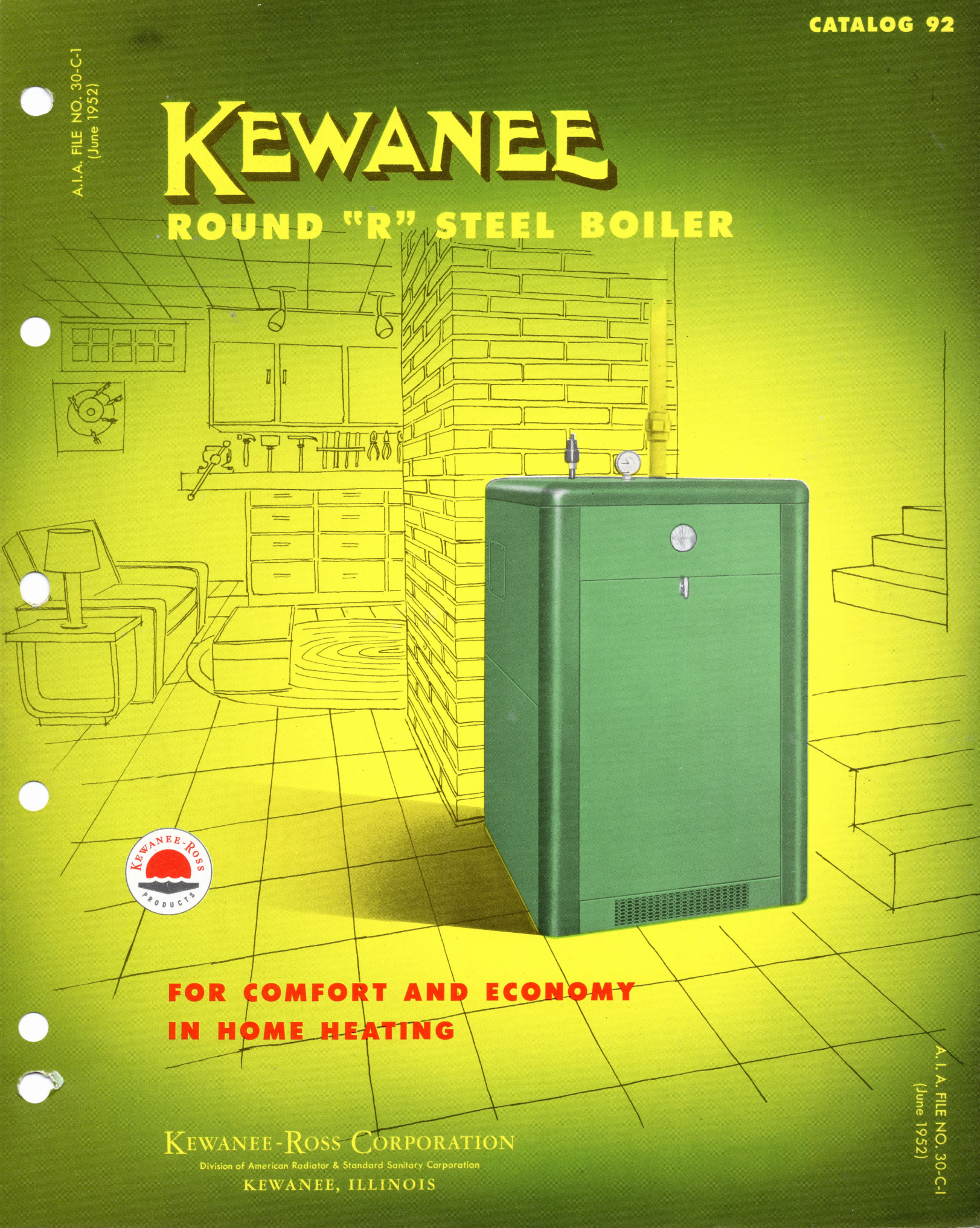
CATALOG 92

A.I.A. FILE NO. 30-C-1
(June 1952)

KEWANEE

ROUND "R" STEEL BOILER



KEWANEE-ROSS PRODUCTS

FOR COMFORT AND ECONOMY IN HOME HEATING

A. I. A. FILE NO. 30-C-1
(June 1952)

KEWANEE-ROSS CORPORATION
Division of American Radiator & Standard Sanitary Corporation
KEWANEE, ILLINOIS

KEWANEE®

ROUND "R" BOILER

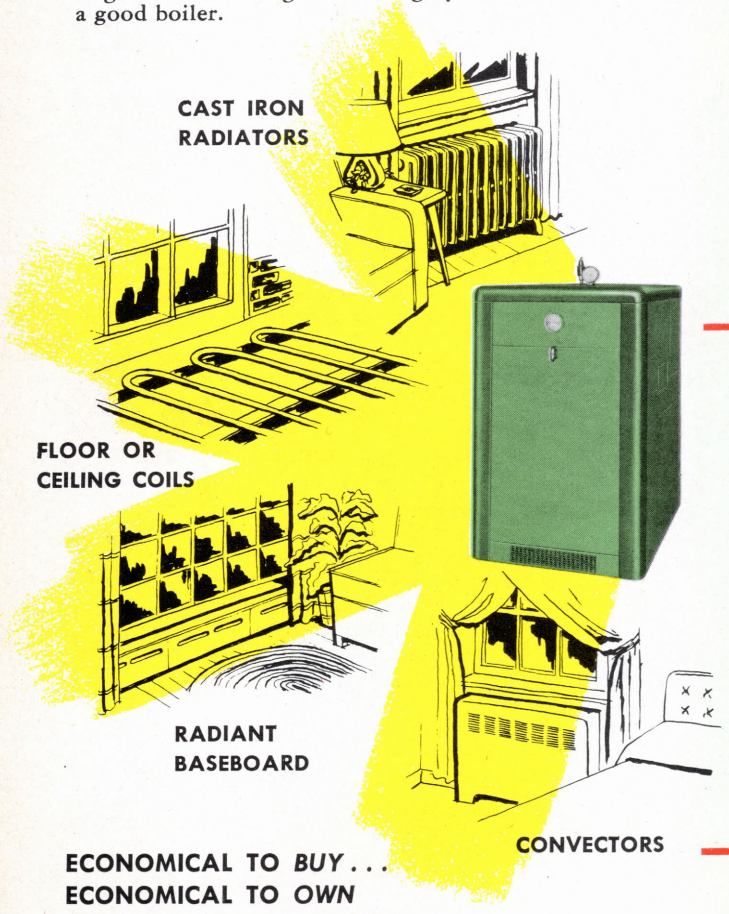
for Oil, Gas and Stoker Firing

400 to 900 sq ft Steam Radiation

640 to 1440 sq ft Water Radiation

Over three-quarters of a century ago Kewanee started to manufacture steel heating boilers. Today Type "R" . . . for homes and small buildings . . . is the result of the accumulated knowledge and experience gained in 85 years as Boilermakers.

No matter what fuel is used and regardless of the method employed to *distribute heat,* it is in the boiler that heat is generated. So a good heating system must start with a good boiler.



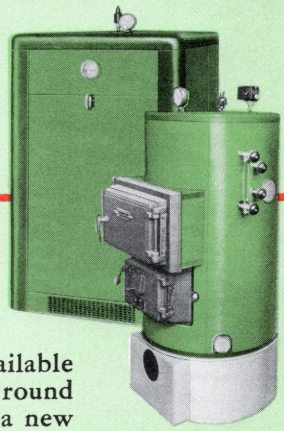
ECONOMICAL TO *BUY* . . . ECONOMICAL TO *OWN*

The skillfully engineered design and sturdy steel construction of Kewanee Round "R" spreads its initial cost over so many extra years that in the end it is *most economical to buy.* Many fuel saving features insure smaller fuel bills during the boiler's entire life so it is *most economical to own.*

Kewanee Round "R" is fashioned of the same staunch steel plate as used in the larger Kewanees. Before leaving the factory exhaustive tests are made under pressures far above the 15 lbs Steam and 30 lbs Water Working Pressures at which the boiler will operate. And, like all Kewanee Boilers, it meets or exceeds the strictest requirements of the American Society of Mechanical Engineers and Steel Boiler Institute Codes for heating boilers.

PROVISION FOR AUTOMATIC CONTROLS

All tappings in the boiler shell which are essential for safety devices and automatic firing controls, are made at the factory to *exact dimensions* so an accurate fit is certain. This simplifies and cuts down installation time. Corresponding knock-out discs are made in the jackets.

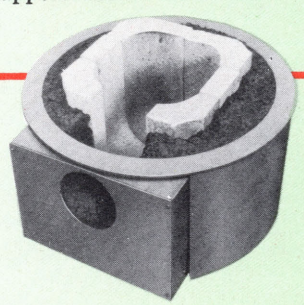


ATTRACTIVE INSULATING JACKETS

The Kewanee Round "R" is available unjacketed, or in a snug fitting round insulating jacket . . . also in a new improved style jacket with rounded corners which *completely encloses* the boiler and oil or gas burner.

A one-inch insulating blanket of Fiberglas lining the round jacket, or the insulating blanket on the boiler with the Enclosing Jacket, keeps heat inside the boiler and saves fuel.

The jacket exteriors in a rich two-tone green give the entire installation plenty of "eye appeal" that harmonizes with the appearance of the modern utility rooms.

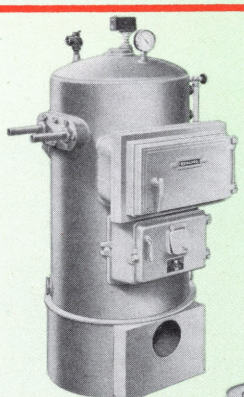


SPECIAL COMBUSTION CHAMBER FOR OIL FIRING

Because of the extremely high temperatures generated with oil, the special combustion chamber, shown above, is furnished at additional cost with Round "R" Boilers for oil.

Consisting of a special refractory firebrick tile, bonded with high temperature cement and surrounded with loose rock wool insulation, this special combustion chamber helps rapid and complete combustion and eliminates the expense of building a hand-made brick chamber.

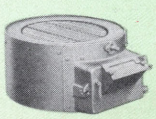
If the boiler's foundation is NOT insulated, a layer of pressed asbestos board, block or similar insulation is recommended under the combustion chamber, its thickness depending on the diameter and setting height of the burner tube.



EASILY CONVERTED FROM ONE FUEL TO ANOTHER

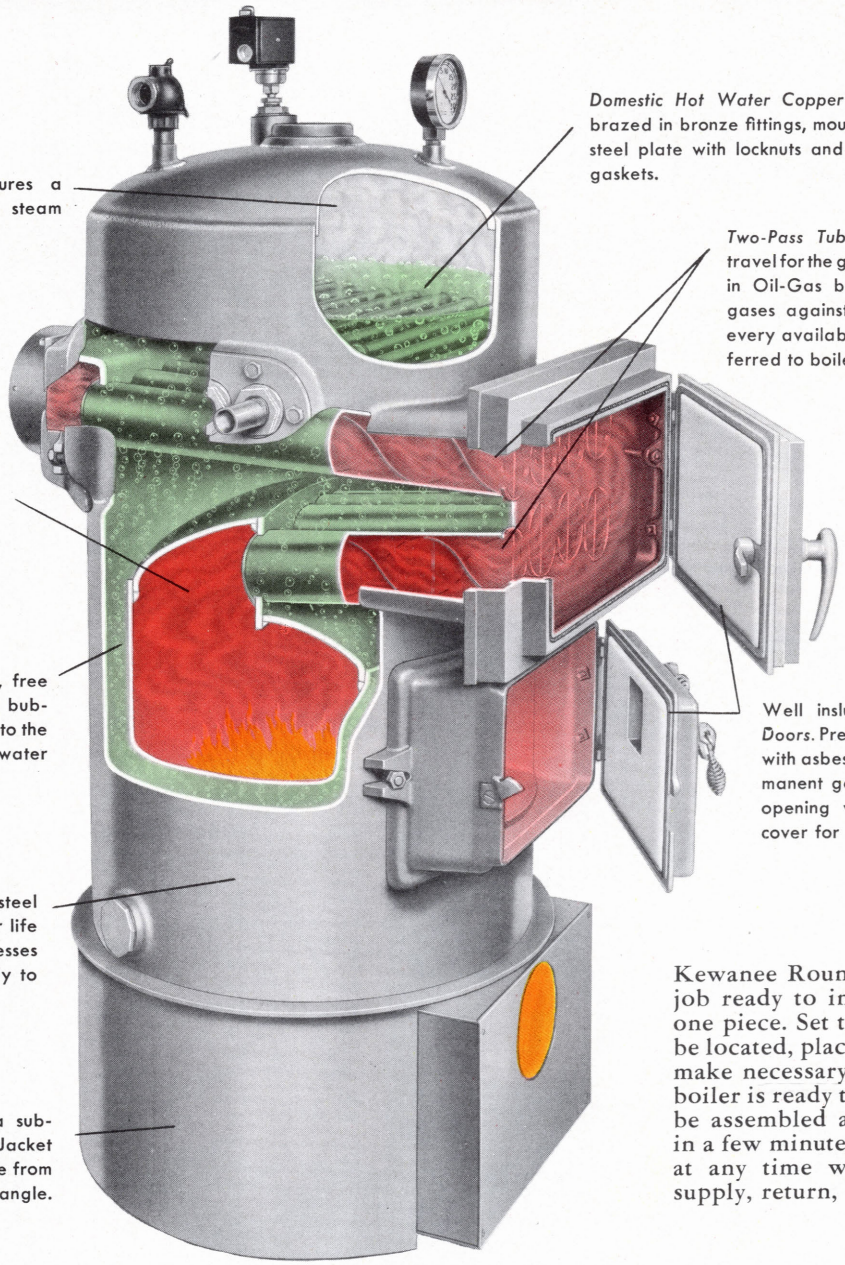
With a Round "R" Boiler the owner is not confined to any one fuel as a switch from one to another is made quickly and inexpensively.

In switching from mechanical to hand firing, or vice versa, no change in the boiler itself is needed. The bases for both types of firing are the same dimensions so the boiler can be jacked up and the proper base substituted.



For further information on Kewanee Round "R" for Hand-fired Coal, contact your local Kewanee Sales Office.

IT'S WHAT'S UNDER THE JACKET THAT COUNTS



Large Steam Space assures a plentiful reserve of dry steam available at all times.

Domestic Hot Water Copper Coil is brazed in bronze fittings, mounted on steel plate with locknuts and rubber gaskets.

Two-Pass Tubes provide double travel for the gases. Spinner Blades in Oil-Gas boilers swirl the hot gases against the tube walls so every available heat unit is transferred to boiler water.

Large, High Firebox provides the burning fuel with sufficient air for complete combustion eliminating waste.

Rapid Circulation in wide, free waterways sweeps steam bubbles up without commotion to the unbroken release area at water line, keeping it steady.

Well insluated sturdy *cast iron Doors*. Precision ground and sealed with asbestos rope gasket for permanent gas tight fit. Observation opening with adjustable hinged cover for secondary over-fire air.

Shell—extra heavy quality steel plate for strength and longer life —takes up temperature stresses —welded in one piece ready to set on base.

Heavy, Steel Base is extra substantial, and with Round Jacket may be swung around to fire from front, rear, side or at any angle.

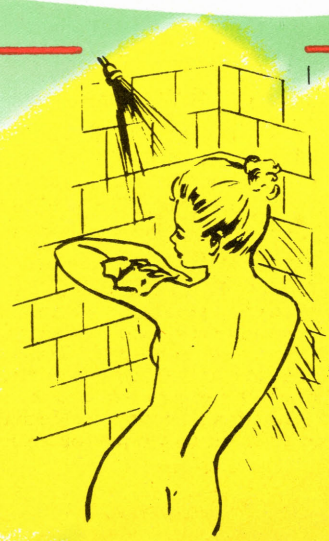
Kewanee Round "R" arrives on the job ready to install. The shell is in one piece. Set the base where it is to be located, place boiler shell on base, make necessary connections and the boiler is ready to be fired. Jackets can be assembled and bolted into place in a few minutes and can be installed at any time without disconnecting supply, return, or coil piping.

PLENTY OF HOT WATER FOR KITCHEN, LAUNDRY AND BATH

An abundant supply of hot water is essential to comfort and health. With Round "R" one can have hot water a-plenty without the care and expense of a separate water heater

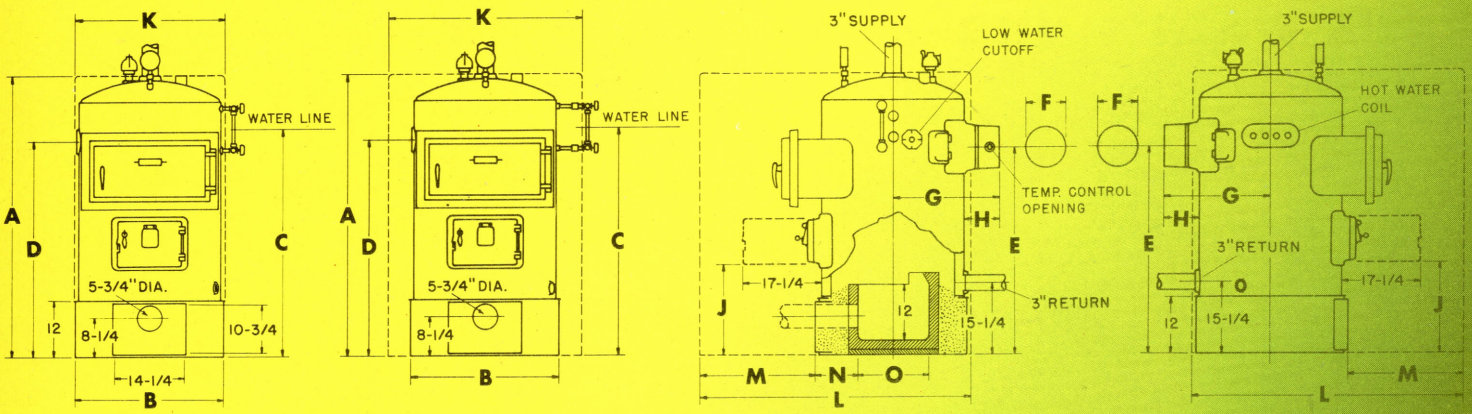
Copper coils for domestic hot water can be fitted into Kewanee Round "R" at the factory or *anytime after the boiler is installed.* Coils for either Instantaneous. or Storage Tank operation available. See tables below.

Boiler Number	For Storage Tank Operation				For Instantaneous Flow			
	Coil No. and Max Size	Rated Capacity Gals Heated 40°-140° 3 Hrs in Boiler Water		Surface Sq Ft	Coil No. and Max Size	Rated Capacity Gals Heated 40°-140° in 180° Boiler Water		Surface Sq Ft
		212° F	180° F			1 Hr	1 Min	
734, 735, 736, 1737	A65	65	40	2.0	.....	.....	.....	.....
734, 735, 736, 1737	C150	150	90	5.0	EN34	170	2.9	11.4
735, 736, 1737	.....	.....	.....	.....	EN35	210	3.5	14.0
736, 1737	D200	200	120	6.6	EN36	250	4.2	16.5



KEWANEE ROUND "R" BOILER

FOR OIL, GAS OR STOKER FIRING



RATINGS AND DIMENSIONS

BOILER NUMBER UNJACKETED SQUARE JACKET (Oil-Gas only) ROUND JACKET	OIL—GAS—STOKER*			
	1734 1734MQ 1734J	1735 1735MQ 1735J	1736 1736MQ 1736J	1737 1737MQ ...
SBI Net Rating (Connected Radiation plus Hot Water Load)				
—Steam or Vapor.....sq ft	400	550	700	900
—Water.....sq ft	640	880	1120	1440
—Btu per Hour.....1000's	96	132	168	216
**Fuel Burning Rates				
—Oil.....gal per hr	1.4	1.8	2.3	3.0
—Gas Input.....1000's Btu per hr	180	248	315	405
—Stoker Coal.....lb per hr	16	22	28	...
Heating Surface.....sq ft	24	32	41	53
Furnace Volume.....cu ft	4.4	6.4	8.9	8.9
Firebox Volume, for Stoker Firing.....cu ft	3.7	5.4	7.4	...
Boiler Shell—Diameter.....in.	23¾	27½	30½	30½
—Height.....in.	42½	46	48½	48½
Firebox—Inside Diameter.....in.	20	23	26	26
—Average Height.....in.	22	24	26	26
A—Height Overall Boiler, Base, Jacket.....in.	54½	58	60½	60½
B—Base Diameter.....in.	26	29½	32½	32½
C—Water Line Height.....in.	44	47	49	49
***D—Water Coil Connection Height.....in.	41½	44½	46½	46½
E—Smoke Outlet Height.....in.	39½	42½	44½	44½
F—Smoke Outlet Diameter.....in.	7	9	9	9
G—Smoke Outlet—to Boiler Center.....in.	18¾	21½	23	23
H—Rear Clearance—Boiler to Wall.....in.	6¾	7¾	7¾	7¾
J—Floor to Bottom of Firedoor.....in.	19½	20	20½	20½
K—Square Jacket Width.....in.	35	39	42	42
K—Round Jacket Diameter.....in.	25¾	29¼	32¼	...
L—Square Jacket Length.....in.	44½	49	59	59
M—Square Jacket Front Clearance.....in.	17½	18	25	25
N—Minimum Burner Tube Length.....in.	8	8	9	9
O—Combustion Chamber—Length, inside.....in.	11	15½	15½	15½
—Width, inside.....in.	10½	10½	15	15
Capacity—Safety Valve or Relief Valve lbs of steam or 1000's Btu.....	120	160	205	265
Chimney Size.....in.	8x8	8x12	8x12	10x10
Chimney Height.....ft	30	30	35	40
Outside Surface to Cover, Unjacketed.....sq ft	24	35	41	47
Shipping Weight—Unjacketed.....lb	800	920	1130	1400
—Jacketed MQ.....lb	1100	1200	1450	1700
—Jacketed J.....lb	835	960	1175	...

*1737 not furnished for Stoker Firing. **Fuel Burning Rates are for 150% boiler outputs as listed. Based on Oil, 140,000 Btu per gal., Coal 12,000 Btu per lb as fired. ***Coil Connection Sizes: 1" pipe for two outlets, ¾" pipe for four outlets.
Equipment—Base assembled. Firedoor and flue cleanout door, with frames.
Cleanout cover plates; 1½" washout plugs; and spinner blades for Oil or Gas.
Trimmings, Steam Boiler—Compound steam and vacuum gauge, water gauge, two try cocks, ¾" saftey valve. The extra 1½" tapping in top of boiler may be used for pressure control.
Water Boiler—Combination altitude gauge and thermometer.
Tools—Soot and flue scrapers.

KEWANEE-ROSS CORPORATION
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KEWANEE, ILLINOIS

Catalog 92—30M 6-52 SPC.
Litho in U. S. A.